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(FILE 'USPAT' ENTERED AT 15:09:33 ON 03 JUL 96)

L1	169	S	FAN CONTROL? AND MICROPROCESSOR
L2	365	S	FAN (P) COOL? (P) ?PROCESSOR
L3	52	S	L1 AND L2
L4	119971	S	CLOCK
L5	24	S	L3 AND L4
L6	733215	S	TEMPERATURE
L7	24	S	L5 AND L6

Set	Items	Description
S1	44919	MICROPROCESSOR? ? OR MICRO()PROCESSOR? ?
S2	51954	(CLOCK? ? OR CLOCKING)(5N)(CONTROL? OR GENERAT?)
S3	54827	(TEMPERATURE? ? OR HEAT? OR THERMAL?)(5N)(SENSOR OR SENSORS OR SENSING)
S4	190728	(FREQUENCY OR FREQUENCIES OR SPEED? ?)(5N)(REDUC? OR SLOW? OR ADJUST? OR MODIF? OR CHANG? OR ALTER? OR LOWER? OR DECELERAT?)
S5	110	S1(N100)S2(N100)S2(N100)S4
S6	77	S5 NOT (PY=1995:1996 OR PD=940620:960703)
S7	4	S1(N100)S2(N100)S3(N100)S4
S8	0	S8 NOT (PY=1995:1996 OR PY=940620:960703)
S9	23	S1(N100)S3(N100)S4
S10	0	S10 NOT (S8 OR PY=1995:1996 OR PD=940620:960703)

 7/5/1   (Item 1 from file: 351)
DIALOG(R)File 351:DERWENT WPI

003103819 WPI Acc No: 81-L3868D/44
    Extrapolating digital thermometer uses clock oscillator and two
    microprocessors coupled to operational memory, increasing speed and
    range
Patent Assignee: (CHTE=) CHELY TEPLOPRIBOR
Author (Inventor): PYATSHEV V V; PEKLER V N
Number of Patents: 001
Patent Family:
    CC Number   Kind   Date   Week
    SU 796668   A   810125   8144   (Basic)
Priority Data (CC No Date): SU 2685107 (781115); SU A85107 (781115)
Abstract (Basic): A clock oscillator and two *microprocessors* are used in
    the digital thermometer to increase speed and the temperature range.
        The temperature sensor e.g. a thermocouple resistance thermometer
    etc., signals are converted into digital form under clock pulses
    control, also applied to the operational memory and the
    microprocessors. The converter output code is linearised and stored.
    The three adjoining codes are processed indicating extrapolated
    temperature.
        The extrapolation allows measurement of very high temperature
    above the sensors range. The circuit is suitable for any type of
    temperature sensor and outputs non-linearity as the characteristics are
    automatically corrected by the processing. The interpolation *speed* is
    reduced to tens of milliseconds. Bul.2/15.1.81. (3pp)
File Segment: EPI
Derwent Class: S03; R14;
Int Pat Class: G01K-007/16
Manual Codes (EPI/S-X): S03-B01A